

CLAIMS

Sulu 5 1) DNA sequence of the htFIIIA gene coding for a protein having the biological function of human transcription factor hTFIIIA.

10 2) DNA sequence of the htFIIIA gene of the human transcription factor hTFIIIA according to claim 1, coding for the amino acid sequence SEQ ID N°2.

15 3) DNA sequence of the htFIIIA gene according to claim 1 or 2 containing the nucleotide sequence SEQ ID N°3

20 4) DNA sequence of the htFIIIA gene according to claims 1 to 3 containing the nucleotide sequence SEQ ID N°4.

25 5) DNA sequence according to claim 4 having the sequence beginning at nucleotide 176 and finishing at the nucleotide 1270 of SEQ ID N°3.

30 6) DNA sequence coding for the human transcription factor hTFIIIA according to claims 1 to 5 as well as the DNA sequences which hybridize with it and/or show a significant homology with this sequence or fragments of it and which code for a protein with the same function.

35 7) DNA sequence according to claims 1 to 6 comprising modifications introduced by suppression, insertion and/or substitution of at least one nucleotide coding for a protein with the same biological activity as human transcription factor hTFIIIA.

8) DNA sequence according to one of claims 1 to 7 as well as similar DNA sequences which have nucleotide sequence homology of at least 50 % or at least 60 % and preferably at least 70 % with the said DNA sequence.

9) DNA sequence according to one of claims 1 to 8 as well as similar DNA sequences which code for a protein, the AA sequence of which has a homology of at least 40 % and in particular 45 % or at least 50 %, rather at least 60 % and preferably at least 70 % with the AA sequence coded by the said DNA sequence.

10) Polypeptide having the function of human transcription factor hTFIIIA and with the amino acid sequence SEQ ID N°2 coded by the DNA sequence according to one of claims 1 to 9 and the analogues of this polypeptide.

~~11) Process for the preparation of the hTFIIIA recombinant protein having the amino acid sequence SEQ ID N°2 comprising the expression of the DNA sequence according to one of claims 1 to 9 in a appropriate host, then isolation and purification of the said recombinant protein.~~

~~12) Expression vector containing the DNA sequence according to one of claims 3 to 9~~

~~13) Host cell transformed with a vector according to claim 12~~

~~14) Plasmid deposited at the CNCM under the number I-2071.~~

~~15) Use of the human transcription factor htfIIIA gene or of the human transcription factor coded by this gene according to one of the claims 1 to 10 for the preparation of compositions which can be used for the diagnosis or treatment of diseases linked to a disorder in transcription control.~~

~~16) Use according to claim 15 for which the disease concerned is cancer.~~

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